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## NOTICE OF ALLOWANCE AND FEE(S) DUE

59796

7500

06/22/2009

INTEL CORPORATION c/o CPA Global P.O. BOX 52050 MINNEAPOLIS, MN 55402

EXAMINER				
PHU, PHUONG M				
ART UNIT	PAPER NUMBER			
2611				

DATE MAILED: 06/22/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,343	12/31/2003	Sumit Roy	42P16726	8209

TITLE OF INVENTION: TIME-FREQUENCY CODING IN A MULTI-BAND ULTRA-WIDEBAND SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/22/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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MINNEAPOLIS	S, MN 55402		[					(Depositor's name)
								(Signature)
			Į					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/749,343 TITLE OF INVENTION	12/31/2003 I: TIME-FREQUENCY	CODING IN A MULTI-	Sumit Roy BAND ULTRA-WIDE	EBAN	ND SYSTEM		42P16726	8209
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	09/22/2009
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PHU, PH	UONG M	<u>2</u> 611	375-132000	.000				
"Fee Address" ind PTO/SB/47; Rev 03-( Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Uni	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Com	" Indication form ned. Use of a Customer A TO BE PRINTED ON	data will appear on th	ingle or ag attorn I be p r type ne pal	firm (having as a gent) and the nam news or agents. If wrinted.	memb es of uj no nam	er a 2 o to e is 3 entified below, the do	ocument has been filed fo
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	up entity 🚨 Governmen
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**	s SMALL ENTITY state	us. See 37 CFR 1.27.	• •	_	•		TITY status. See 37 CF	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ttes Patent and Trademark	ed from anyone other th k Office.	an th	e applicant; a regi	stered a	ttorney or agent; or th	e assignee or other party is
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Typed or printed name			Registration No.					
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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c/o CPA Global			ART UNIT	PAPER NUMBER
P.O. BOX 52050 MINNEAPOLIS, MN 55402			2611 DATE MAILED: 06/22/200	9

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 627 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 627 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/749,343	ROY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Phuong Phu	2611	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet (OR REMAINS) CLOSED ) or other appropriate com IGHTS. This application i	in this application. If not included munication will be mailed in due cours	se. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>the Amendment filed</u>	on 04/03/09.		
2. The allowed claim(s) is/are 9-12 and 21-24.			
3. ☐ Acknowledgment is made of a claim for foreign priority under a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have		I) or (f).	
2. ☐ Certified copies of the priority documents have		tion No.	
3. ☐ Copies of the certified copies of the priority do			from the
International Bureau (PCT Rule 17.2(a)).	rounionto navo poon root	rea in the hadenal stage application i	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath	or declaration is deficient.	
5. CORRECTED DRAWINGS ( as "replacement sheets") must			
(a) ☐ including changes required by the Notice of Draftspers		ew ( PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			κ) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of	Informal Patent Application	
<ol> <li>Notice of References Cited (F10-092)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		Summary (PTO-413),	
	Paper N	o./Mail Date .	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. ∐ Examine	's Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	's Statement of Reasons for Allowand	ce
/Discours Disc/	9.	·	
/Phuong Phu/ Primary Examiner, Art Unit 2611			

Application/Control Number: 10/749,343 Page 2

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### **DETAILED ACTION**

1. This Office Action is responsive to the Amendment filed on 04/03/09. Accordingly, claims 9-12 and 21-24 are currently pending; and claims 1-8, 13-20 and 25-28 are canceled.

#### REASONS FOR ALLOWANCE

- 2. Claims 9-12 and 21-24 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

-Regarding independent claim 9, none of prior art of record teaches or suggests an electronic appliance, comprising: one or more transceiver(s) to wirelessly communicate with other devices; and a hopping code engine to select a frequency hopping code (FHC) from a set of predetermined FHC's for communicating with other devices in a multi-band ultra-wideband (MB-UWB) network, wherein the FHC is selected based on being able to decode a beacon signal, wherein the FHC defines a sequence of two or more pulses over two or more frequencies and wherein the FHC's include a time slot that contains no transmission.

-Regarding independent claim 21, none of prior art of record teaches or suggests an apparatus, comprising one or more transceiver(s) to wirelessly communicate with other devices; and control logic coupled with the transceiver(s), the control logic to select a frequency hopping code (FHC) from a set of predetermined FHC's for communicating with other devices in a multiband ultra-wideband (MB-UWB) network, wherein the FHC is selected based on being able to decode a beacon signal, wherein the FHC defines a sequence of two or more pulses over two or more frequencies and wherein the FHC's include a time slot that contains no transmission.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Art Unit: 2611

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The

examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu Primary Examiner

Art Unit 2611

/Phuong Phu/

Primary Examiner, Art Unit 2611